

Comparisons of Job Characteristics

Focus Occupation: Helpers--Electricians (47-3013)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Helpers--Electricians (47-3013)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	19.3	13.4	<<	Extensive education and/or training may be required
Building and Construction	4.0	14.3	14.8	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	12.0	7.5	<<	Extensive education and/or training may be required
Design	5.2	11.7	8.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	10.3	5.9	<<	Extensive education and/or training may be required
Physics	4.3	8.8	4.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Helpers--Electricians (47-3013)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	12.7	8.0	<<	Extensive development of skills in this area may be required
Repairing	3.4	12.3	7.6	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	10.0	6.1	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	9.8	7.1	<<	Extensive development of skills in this area may be required

Equipment Selection	3.3	9.5	5.1	<<	Extensive development of skills in this area may be required
Installation	1.7	8.3	5.7	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 81			
Focus Occupation: Helpers--Electricians (47-3013)					
Associated Occupation: Maintenance and Repair Workers, General (49-9042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Information Ordering	9.9	13.3	10.8	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	11.8	9.1	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	11.4	13.0	>	Current ability level is likely sufficient
Visualization	7.5	11.0	9.7	<	Some improvement in abilities may be required
Static Strength	5.0	9.8	9.4	0	Current ability level may be sufficient
Extent Flexibility	4.8	9.2	12.2	>>	Current ability level is likely more than sufficient
Speed of Limb Movement	3.2	5.8	3.7	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	5.6	9.2	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 82
Focus Occupation: Helpers--Electricians (47-3013) Associated Occupation: Maintenance and Repair Workers, General (49-9042)		
Work Activities	Exclusivity of Activity	
Apply cleaning solvents	41	
Bend tubing or conduit	81	
Climb ladders, scaffolding, or utility or telephone poles	56	
Erect scaffold	56	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/string electrical or electronic cable or wiring	76	
Move or fit heavy objects	8	
Operate hoist, winch, or hydraulic boom	34	
Paint walls or other structural surfaces	75	

Read blueprints	10
Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Use acetylene welding/cutting torch	54
Use basic carpentry techniques	62
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Helpers--Electricians (47-3013)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Tools and Technologies	Exclusivity
Compressors	9
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Earth moving machinery	11
Electrical measuring and testing equipment	7
Forming tools	2
Garden tools	12
Holding and clamping tools	3
Indicating and recording instruments	2
Industrial trucks	10
Ladders and scaffolding	6
Lifting equipment and accessories	3
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Personal communication devices	2
Pneumatic tools	8
Power tools	2
Product and material transport vehicles	13
Prying and bending tools	10
Pulling tools	31
Respiratory protection	6
Safety apparel	4

Soldering and brazing and welding machinery and supplies	6
Surveillance and detection equipment	11
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.